

03060101-060

(Twelvemile Creek)

General Description

Watershed 03060101-060 is located in Pickens County and consists primarily of *Twelvemile Creek* and its tributaries from its origin to its confluence with Golden Creek. The watershed occupies 67,805 acres of the Blue Ridge and Piedmont regions of South Carolina. The predominant soil types consist of an association of the Cecil-Hiwassee-Pacolet series. The erodibility of the soil (K) averages 0.25, and the slope of the terrain averages 14%, with a range of 2-80%. Land use/land cover in the watershed includes: 72.5% forested land, 20.3% agricultural land, 6.1% urban land, 0.5% barren land, 0.4% water, and 0.2% forested wetland.

Middle Fork Twelvemile Creek (Big Rock Lake, Youngs Branch, Blacks Branch, Mill Shoals Creek, California Branch, Adams Creek) and North Fork (Findleys Lake, Hagood Branch) join to form Twelvemile Creek. Downstream from the confluence, Twelvemile Creek accepts drainage from Town Creek, Cannon Creek (Gregory Creek, West Fork, Hayes and Collins Lake), Wolf Creek (Raven Branch), Praters Creek, and Rices Creek (Country Club Lake). There are a total of 135.1 stream miles and 273.8 acres of lake waters in this watershed, all classified FW.

Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
SV-206	S/BIO	FW	NORTH FORK AT US 178, 2.9 MI N OF PICKENS
SV-282	SED	FW	TWELVEMILE CREEK AT S-39-273, 2.8 MI SSW OF PICKENS
SV-740	BIO	FW	RICES CREEK AT S-39-158
SV-739	BIO	FW	TWELVEMILE CREEK AT S-39-137

North Fork (SV-206) – Aquatic life uses are fully supported based on macroinvertebrate community, physical, and chemical data; however, there are significant increasing trends in pH and turbidity. A significant decreasing trend in five-day biochemical oxygen demand suggests improving conditions for this parameter. Recreational uses are partially supported due to fecal coliform bacteria excursions. In addition, there is a significant increasing trend in fecal coliform bacteria concentration.

Rices Creek (SV-740) – Aquatic life uses are fully supported based on macroinvertebrate community data.

Twelvemile Creek – There are two monitoring sites along Twelvemile Creek in this watershed. Only sediment samples are collected at the upstream site (**SV-282**). P,P'DDE, a metabolite of DDT, was detected in the 1998 sediment sample. Although the use of DDT was banned in 1973, it is very persistent in the environment. PCB 1248 was detected in the 1998 and 1999 sediment samples. PCB 1254 was detected in the 1997 sediment sample. Although the manufacture and use of PCBs was banned in 1979, they are also very persistent in the environment. At the downstream site (**SV-739**), aquatic life uses are fully supported based on macroinvertebrate community data.

A fish consumption advisory has been issued by the Department for PCBs (Polychlorinated biphenols) and includes Twelvemile Creek within this watershed (see advisory p.37).

NPDES Program

Active NPDES Facilities

<i>RECEIVING STREAM FACILITY NAME PERMITTED FLOW @ PIPE (MGD)</i>	<i>NPDES# TYPE COMMENT</i>
PRATERS CREEK SPANGLERS GROCERY PIPE #: 001 FLOW: 0.002	SC0000434 MIN0R INDUSTRIAL
RICES CREEK ALICE MFG/FOSTER & ELLJEAN PLT PIPE #: 001 FLOW: 0.055 (PHASE I) PIPE #: 001 FLOW: 0.063425 (PHASE II) PIPE #: 002 FLOW: 0.008425	SC0000370 MIN0R INDUSTRIAL
TOWN CREEK OWT INDUSTRY, INC. PIPE #: 001, 01A FLOW: 0.037	SC0026492 MIN0R INDUSTRIAL
TOWN CREEK SCHLUMBERGER INDUSTRIES PIPE #: 001 FLOW: 0.043	SC0046612 MIN0R INDUSTRIAL
TOWN CREEK TRIBUTARY KENT MANUFACTURING CO. PIPE #: 001, 002 FLOW: M/R	SCG250154 MIN0R INDUSTRIAL
TWELVEMILE CREEK TOWN OF PICKENS/12MILE & WOLF CK REG TRT FAC. PIPE #: 001 FLOW: 0.95	SC0047716 MIN0R DOMESTIC
TWELVEMILE CREEK PICKENS COUNTY STOCKADE LAGOON PIPE #: 001 FLOW: 0.06	SC0047899 MIN0R DOMESTIC
MIDDLE FORK TWELVEMILE CREEK TOWN OF PICKENS/WTP PIPE #: 001 FLOW: M/R	SCG643004 MIN0R INDUSTRIAL
WOLF CREEK SANGAMO/BREAZEALE NPL SITE PIPE #: 001 FLOW: 0.13	SC0047198 MIN0R INDUSTRIAL

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

***LANDFILL NAME
FACILITY TYPE***

***PERMIT #
STATUS***

SANGAMO/ERNEST NIX PROPERTY
INDUSTRIAL

IWP-139 (SCD003344918)
INACTIVE

PICKENS HIGH SCHOOL
SHORT TERM LANDFILL

392900-1302
INACTIVE

Land Application Sites

***LAND APPLICATION SYSTEM
FACILITY NAME***

***ND#
TYPE***

PERCOLATION POND
MONTE VISTA SD

ND0067407
DOMESTIC

Water Quantity

***WATER USER
STREAM***

***TOTAL PUMP. CAPACITY (MGD)
RATED PUMP. CAPACITY (MGD)***

TOWN OF PICKENS
CITY RESERVOIR/NORTH FORK

10.6
5.3

TOWN OF PICKENS
TWELVEMILE CREEK

4.0
2.0

Growth Potential

There is a moderate potential for growth in this watershed, which contains portions of the Town of Pickens and a portion of the City of Easley. Commercial growth is predicted between Pickens and Easley along S.C. Hwy 8. Residential growth has the potential to increase, as does industrial growth. Industrial growth in this watershed is due to the established infrastructure and transportation system, and the proximity of I-85 to the industrial community.